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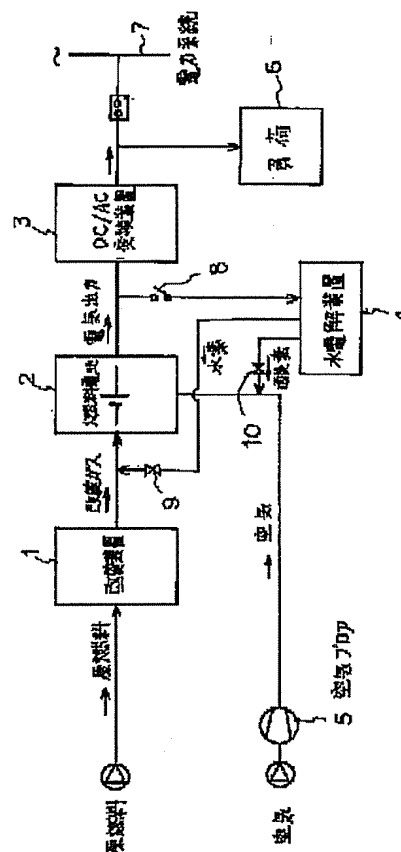
APPLICATION DATE : 11-05-95
APPLICATION NUMBER : 07112732

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : SENDA MASAHIRO;

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TITLE : FUEL CELL POWER GENERATION SYSTEM, AND ITS OPERATION METHOD



ABSTRACT : PURPOSE: To provide a fuel cell power generation system and its operation method in which an excessive part of output can be effectively utilized in self sustaining of a fuel cell at the lowest output required for stand-by operation or low-load operation to save the consumption of material fuel, and achieve a low oxygen utilization factor of the fuel cell.

CONSTITUTION: In a fuel cell power generation system comprising a material fuel reforming device 1, a fuel cell 2, and a power converting device 3, a water electrolytic device 4 for electrolysis of water by excessive output of the fuel cell 2 is provided in the system. The water electrolysis device 4 is charged as a load at the time of low-load operation and stand-by operation in which a load 6 is less than the lowest output of the fuel cell 2 required, and hydrogen and oxygen generated by this water electrolytic device 4 are respectively added to reformed gas and air to be supplied to a hydrogen electrode and an air electrode in the fuel cell 2.

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